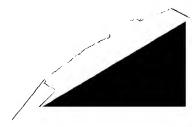


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,800	10/12/2001	Richard Henry Williams	DYOUP0219US 9038 EXAMINER	
75	90 11/19/2003			
Neil A DuChe	z	CLARDY, S		
Renner Otto Boisselle & Sklar 19th Floor			ART UNIT	PAPER NUMBER
1621 Euclid Avenue Cleveland, OH 44115			1616	8
Cleveland, OH	44113		DATE MAILED: 11/19/2003	

Please find below and/or attached an Office communication concerning this application or proceedings,



	Application N	Applicant(s)
	09/889,800	WILLIAMS ET AL.
Office Action Summary	Examiner	Art Unit
	S. Mark Clardy	1616
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		days will be considered timely. Tom the mailing date of this communication. The mailing date of the communication. The mailing date of the communication.
1) Responsive to communication(s) filed on <u>06</u> .	January 2003.	
· _ ·	s action is non-final.	
Since this application is in condition for allow closed in accordance with the practice under		
Disposition of Claims		
4) Claim(s) 1-22 and 25-46 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 and 25-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the specific part of the specific par	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bureath See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language processes a specific reference was included in the first sentence of the foreign language processes.	nts have been received. Into have been received in Application or the december of the certified copies not received priority under 35 U.S.C. § 11 irst sentence of the specification or the certification or the priority under 35 U.S.C. § 1 irst sentence of the specification or the priority under 35 U.S.C. §§ 1	ation No sived in this National Stage ived. 9(e) (to a provisional application) or in an Application Data Sheet. received. 20 and/or 121 since a specific
Attachment(s)	4) Interview Summ	ary (PTO-413) Paper No(s)
Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	al Patent Application (PTO-152)

Application/Control Number: 09/889,800

Art Unit: 1616

Claims 1-22 and 25-46 are pending in this application which has been filed under 35USC371 as the national stage of international application PCTGB00/00367, filed February 7, 2000.

Applicants' claims are drawn to a fertilizer composition (claims 1-16, 25-30, 34-40) and methods of use (claims 19, 32, 33, 42-45) comprising two or more of the following:

at least one phosphonate (NH₄, Na, K)

(claims 1-4, 6)

at least one thiosulfate (NH₄, Na, K)

(claims 1, 2, 4-6)

at least one salicylic acid/homolog/derivative/salt1

(claims 2-6)

In claim 15, the following species is claimed:

150 g/L phosphonate

275 g/L thiosulfate

10 g/L salicylamide

The fertilizer compositions may further comprise a plant growth regulator such as chlormequat (claims 17-18, 31, 41). The fertilizer composition of claim 1 (phosphonate + thiosulfate) may also be used in a method to control parasitic fungi (claim 46).

Claims 4 and 6 are objected to under 37 CFR 1.75 as being a substantial duplicate of claim 2. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

¹ Claims 9-12: salicylamide, benzoic acid or Na/K salt

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 and 25-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Taylor (US 5,800,837), Chen et al (US 5,341,932), and Sampson (GB 2 259 912).

Taylor teaches plant fertilizer compositions comprising phosphonate and phosphate salts which are also described as fungicidal. The compositions are used as aqueous foliar applications (column 4).

Chen et al teach aqueous formulations of plant growth regulators and plant nutrients (abstract) comprising conventional materials such as electrolytes including phosphate, salicylate, and thiosulfate (col 6, lines 9-14), and active agents such as chlormequat (col 8, line 28).

Sampson teaches that ammonium thiosulfate ws a known plant growth stimulating agent (p. 1, lines 1-2), which may be applied with other agrochemical agents such as herbicides, fungicides, insecticides, or plant growth regulators (lines 29-31).

One of ordinary skill in the art would be motivated to combine these references because they teach the utility of combining multiple plant nutrient materials.

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined applicants' phosphonates, thiosulfates, and salicylates because the prior art teaches that phosphonates/phosphates (Taylor) and thiosulfates (Sampson) were known plant nutrients. Chen et al teach that these electrolytes, as well as salicylate are

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useful in formulating aqueous plant nutrient compositions for aqueous foliar application, which may also comprise other active agents such as applicants' chlormequat. While applicants have presented data which demonstrates that compositions comprising all three components reduce the degree of fungal infection and increase plant mass in treated plants, such enhancement would be expected from application of conventional fertilizers and known fungicidal agents; further, it is known in the art that healthier plants are more resistant to infection, that are plants in need of additional plant nutrients.

No unobvious or unexpected results are noted; no claim is allowed.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is 703-308-4550. The examiner can normally be reached on 7:20 - 3:50.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 308-2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

S. Mark Clardy

Primary Examiner

Art Unit 1616